## **CLAIMS**

What is claimed is:

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- 1. A wellhead assembly system for assembling a tubing head onto a floating vessel and for testing the integrity of a riser string disposed between a floating vessel and a subsea wellhead, the assembly system comprising:
- a) a tubing hanger to be landed upon a stem of a floating vessel, the tubing hanger comprising a housing having a generally vertically-disposed bore therethrough and a landing profile for selectively engaging a stem of a floating vessel;
  - b) a running and setting tool comprising:
  - a central piston assembly radially disposed within the bore of the tubing head and being axially moveable therewithin,
  - a landing sub affixed to a lower end of the central piston assembly and being selectively securable to a casing section member;
  - a fluid bore disposed through the central piston assembly and landing sub; and a matching profile upon the central piston assembly for reversably interconnecting the central piston assembly with the tubing head housing.
- 2. The wellhead assembly system of claim 1 further comprising a tubular casing sleeve secured to a lower end of the tubing hanger and sized to retain a casing string member radially within, and a securing assembly for securing an end of a casing string member radially within the casing sleeve.
- 3. The wellhead assembly system of claim 2 wherein the securing assembly further comprises a ratchet suspension assembly having a plurality of radially interior teeth to interengage a radial exterior of a casing string member.

- 4. The wellhead assembly system of claim 1 further comprising a fluid chamber formed between the tubing hanger and the central piston assembly that can be selectively filled to move the piston assembly axially with respect to the tubing hanger.
- 5. The wellhead assembly system of claim 1 wherein the tubing hanger further includes a load cell for measuring tension upon a riser string extending between the tubing hanger and a subsea wellhead.

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- 6. The wellhead assembly system of claim 1 further comprising means for selectively securing the central piston assembly within the tubing hanger to preclude axial movement between the central piston assembly and the tubing hanger.
- 7. The wellhead assembly system of claim 6 wherein the means for selectively securing comprises a set screw.
  - 8. A running and setting tool for landing portions of a wellhead upon the stem of a floating platform, the tool comprising:
  - a central piston assembly radially disposed within a bore of a tubing head to be axially moveable therewithin,
    - a landing sub affixed to a lower end of the central piston assembly and being selectively securable to a casing section member;
    - a fluid bore disposed through the central piston assembly and landing sub; and a profile upon the central piston assembly for reversably interconnecting the central piston assembly with a tubing head.
    - 9. The running and setting tool of claim 8 wherein the landing sub further comprises a seal assembly for selectively creating a fluid seal within a surrounding sleeve.

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- 10. The running and setting tool of claim 8 further comprising means for selectively securing the central piston assembly within a tubing head to preclude axial movement between the central piston assembly and the tubing head.
- 11. The running and setting tool of claim 10 wherein the means for selectively securingcomprises a set screw.
  - 12. A method of assembling a tubing head onto a floating vessel and testing the integrity of a riser string disposed between a floating vessel and a subsea wellhead, comprising the steps of: reversibly securing an upper portion of a central piston assembly to a tubing head; reversibly affixing a landing sub on a lower portion of a central piston assembly to a casing member in a casing string;

pressure testing the casing string; landing the tubing head onto the stem of a floating platform; and energizing a riser seal between the landing sub and a surrounding sleeve.

- 13. The method of claim 12 further comprising the step of pressure testing the riser seal.
- 15 14. The method of claim 12 wherein the step of energizing the riser seal comprises axially moving the central piston assembly with respect to the tubing head assembly.
  - 15. The method of claim 14 wherein the step of axially moving the central piston assembly with respect to the tubing head assembly further comprises the step of pressurizing a fluid chamber.
- 20 16. The method of claim 12 further comprising the step of tensioning the casing string.
  - 17. The method of claim 16 further comprising the step of measuring the tension load upon the casing string via a load cell within the tubing head.

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18.	The method of claim 12 further comprising the step of landing a blowout preventer atop
the tub	ing head.